

**BULK MATERIAL IRRADIATION SYSTEM AND METHOD****ABSTRACT OF THE DISCLOSURE**

A bulk material irradiation system includes an input for inserting bulk material. A bulk material tube is connected to the input, forming a path for bulk material flow. A pressurizing assembly is connected to the bulk material tube for forcing the bulk material to flow through the bulk material tube. An irradiation assembly provides ionizing radiation to irradiate the bulk material passing adjacent to the irradiation assembly in the bulk material tube. Irradiated bulk material exits the bulk material tube through an output.